

FIG. 2A

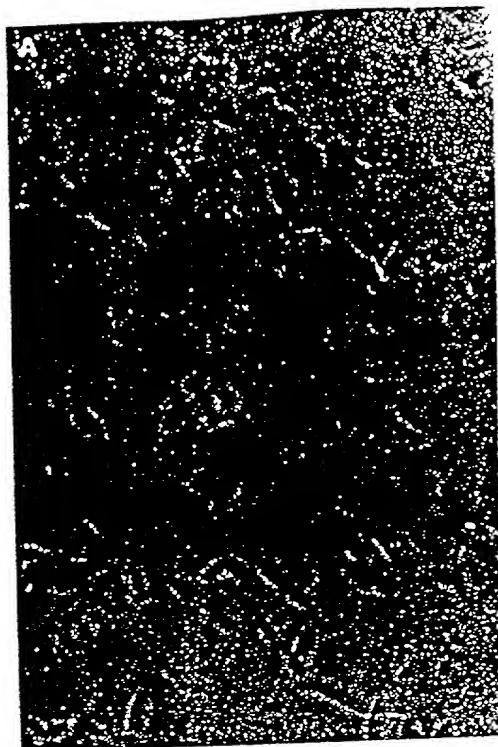
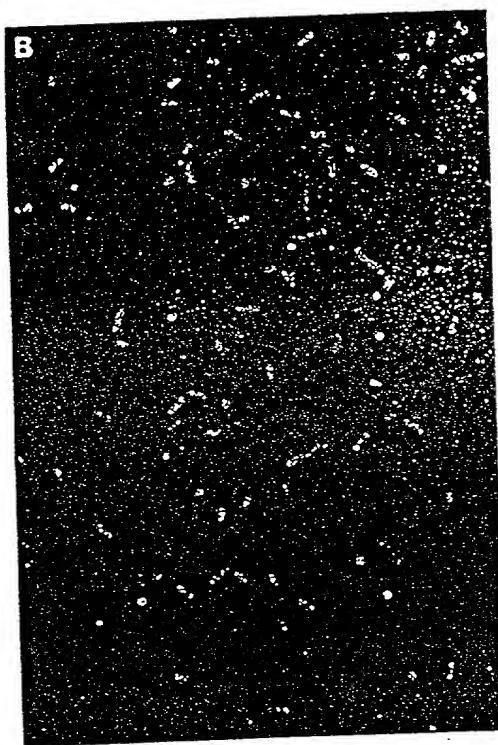


FIG. 2B



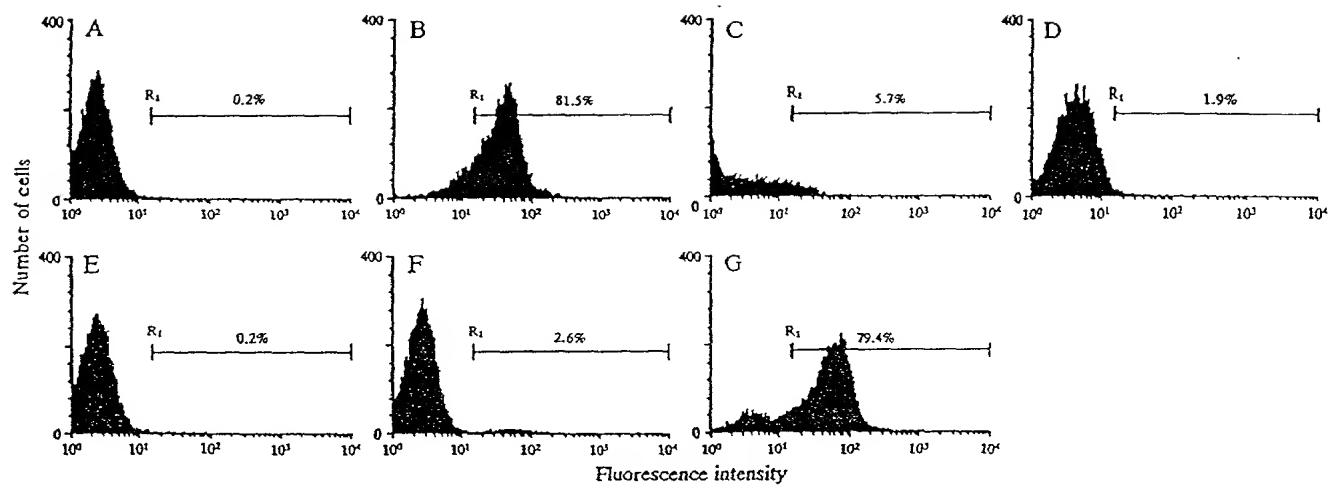


FIG. 3A - 3G

Fig. 4

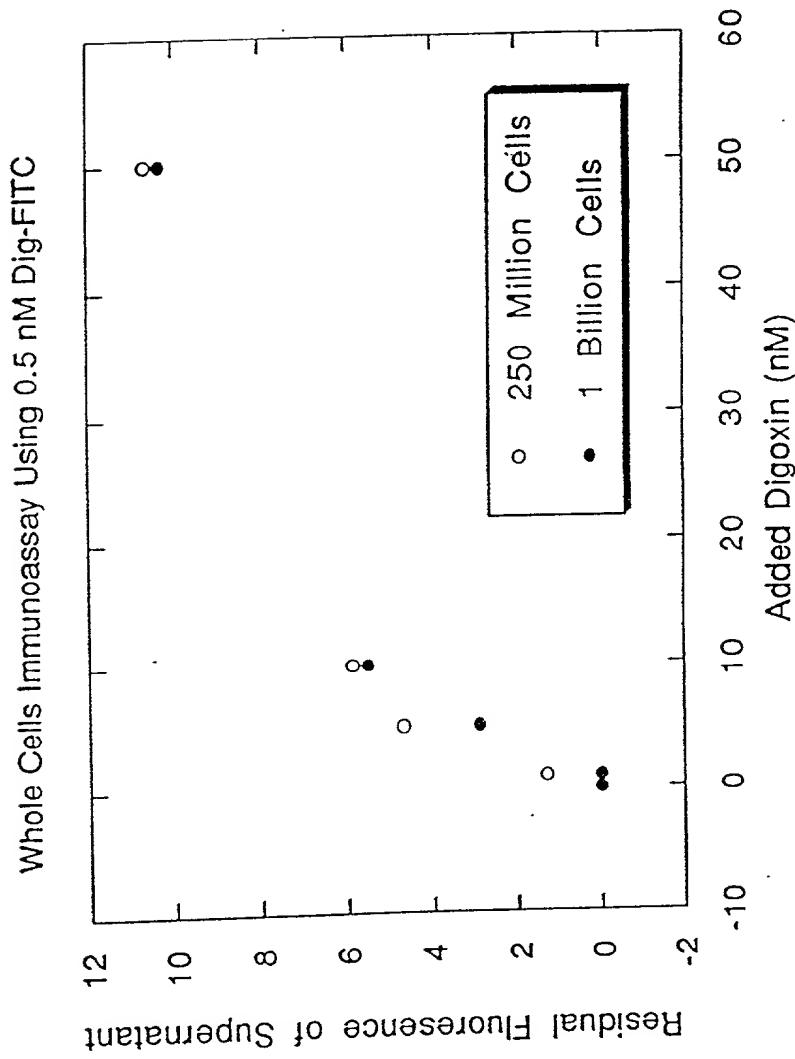


Fig. 5A

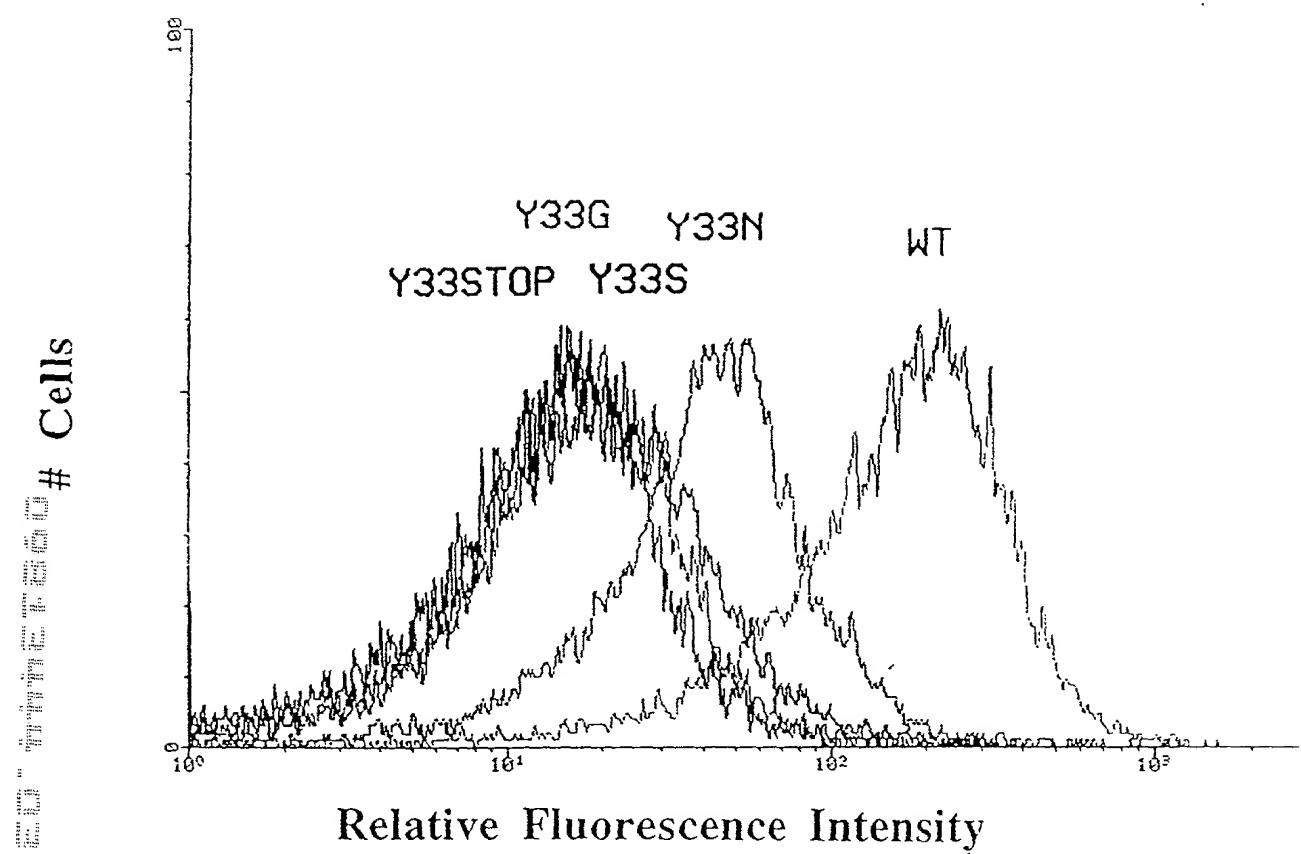
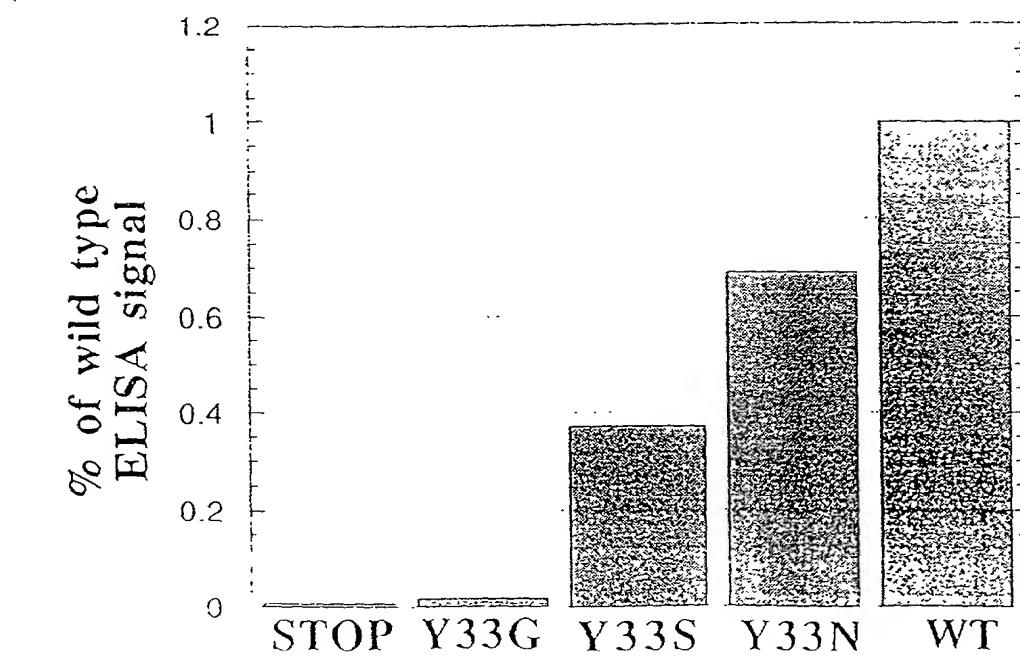


Fig. 5B



Log (Relative Fluorescence)

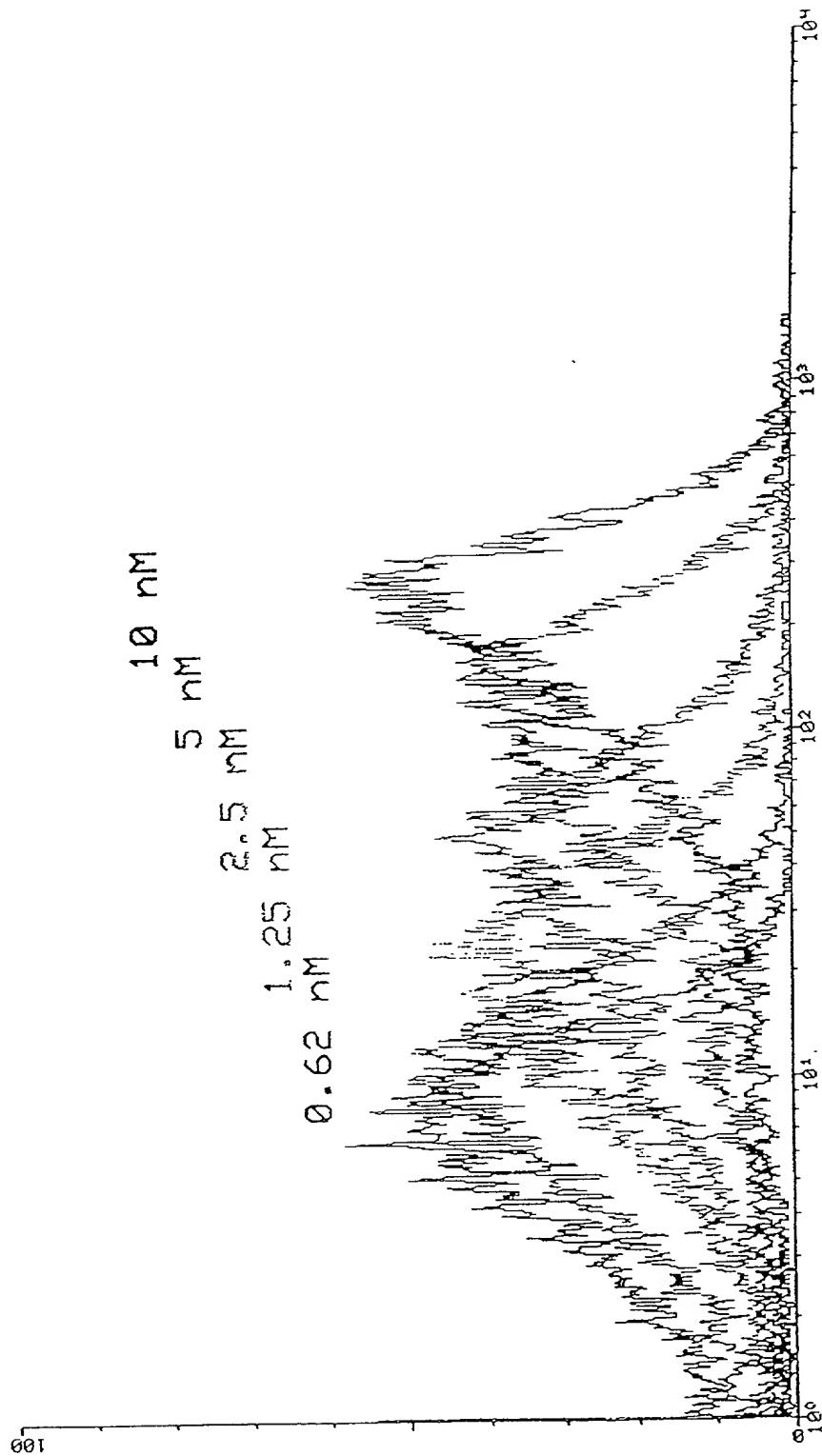


FIG. 6A

Cells

Normalized relative fluorescence

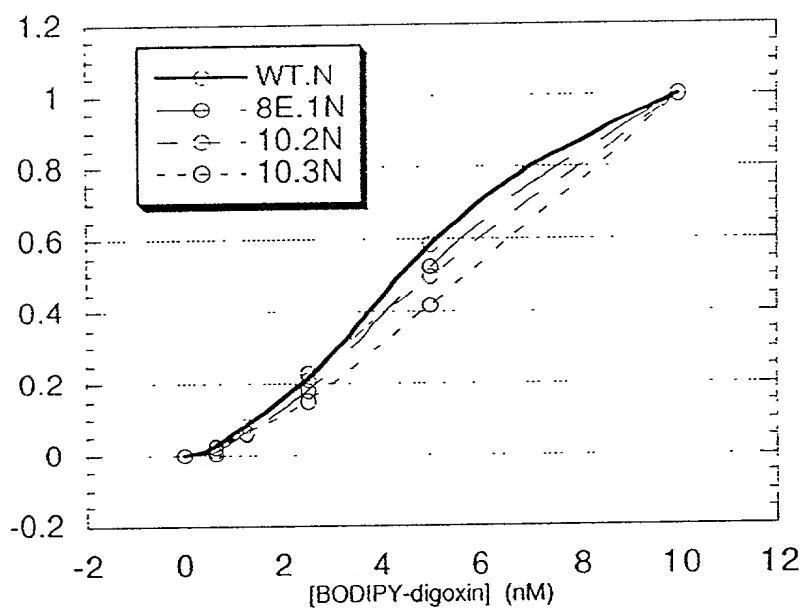


Fig. 6B

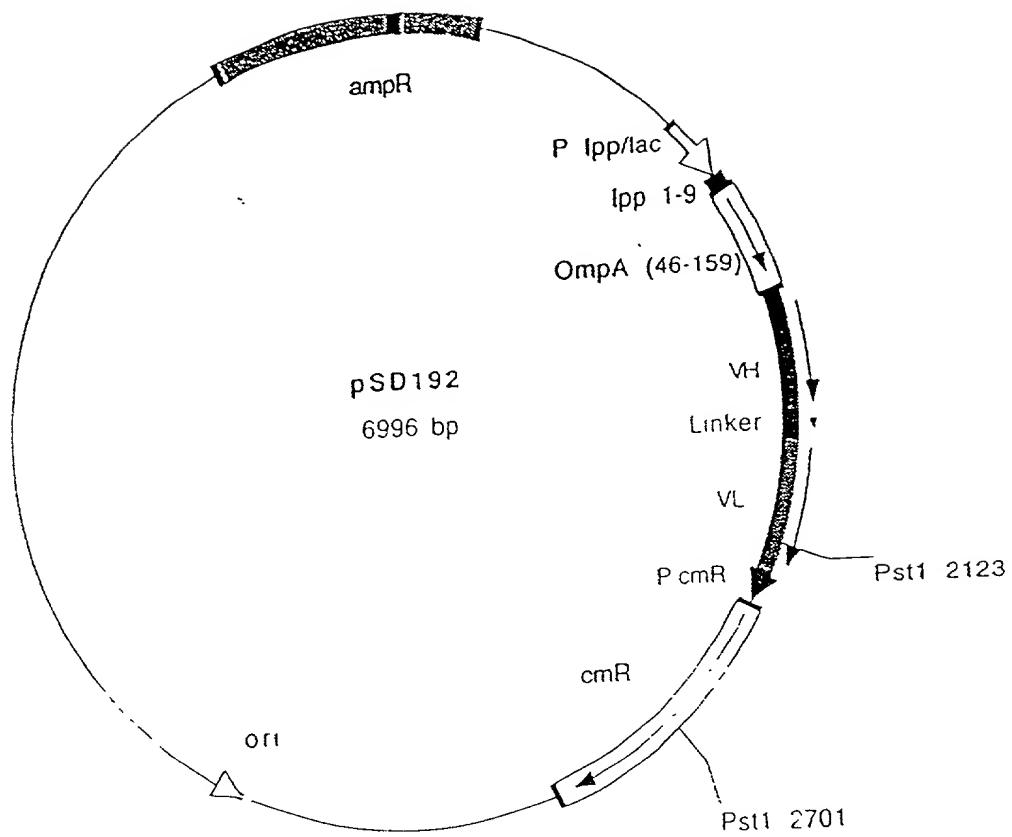
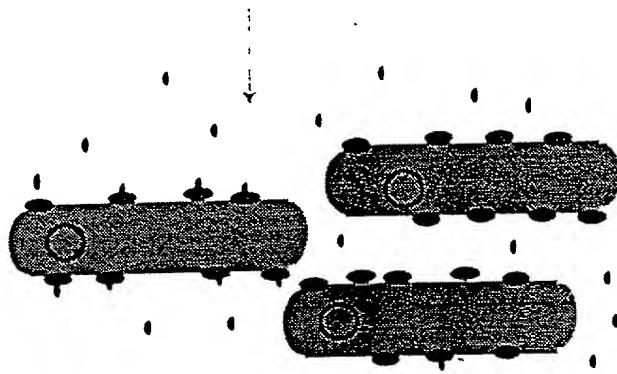


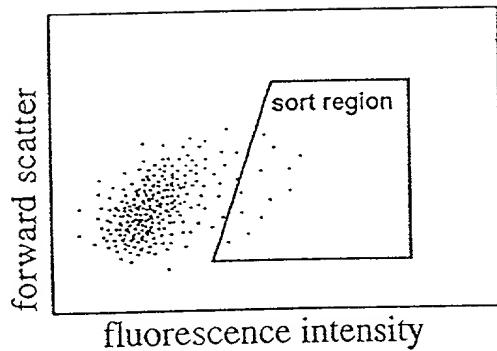
FIG. 7

Fig. 2

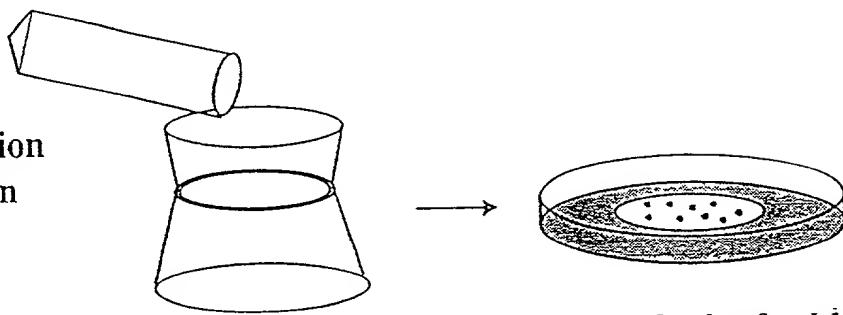
1. transform plasmid scFv library and amplify by growth
2. incubate antibody-expressing cells with fluorescently tagged antigen



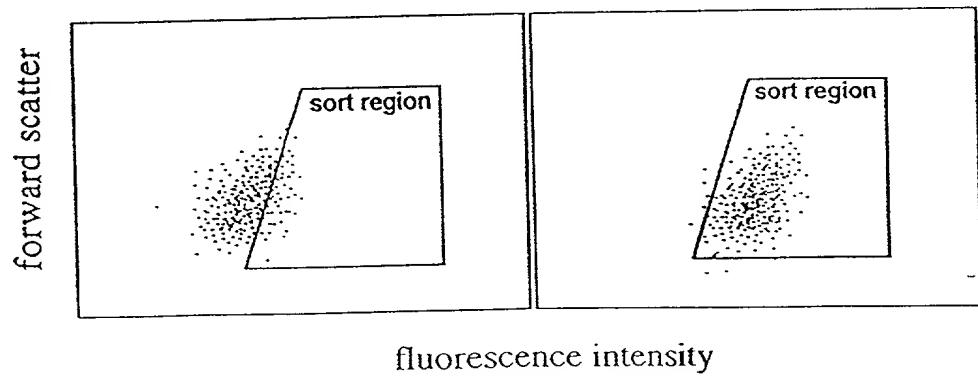
3. sort high - fluorescence cells by FACS



4. collect sorted cells by filtration and amplify on an agar plate



5. assay colonies for high-affinity antigen binding by flow cytometry



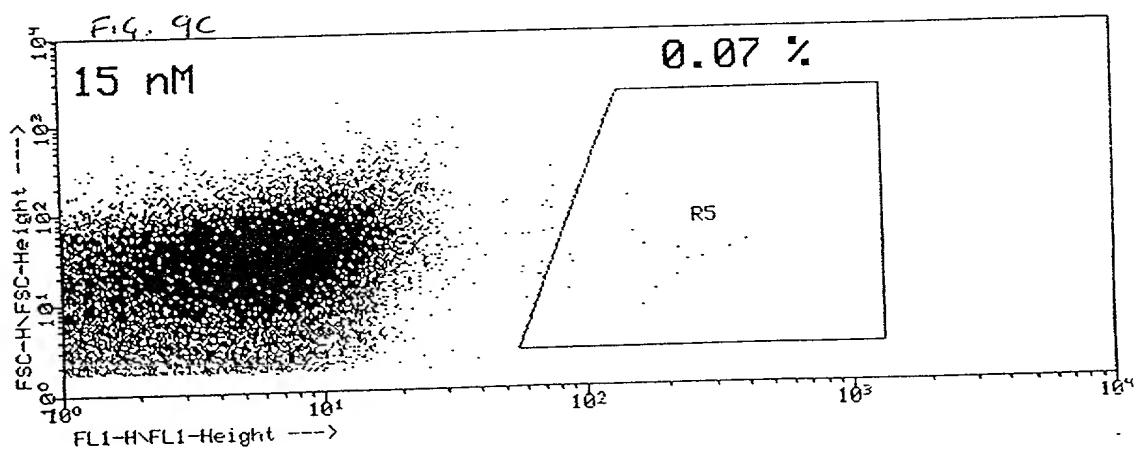
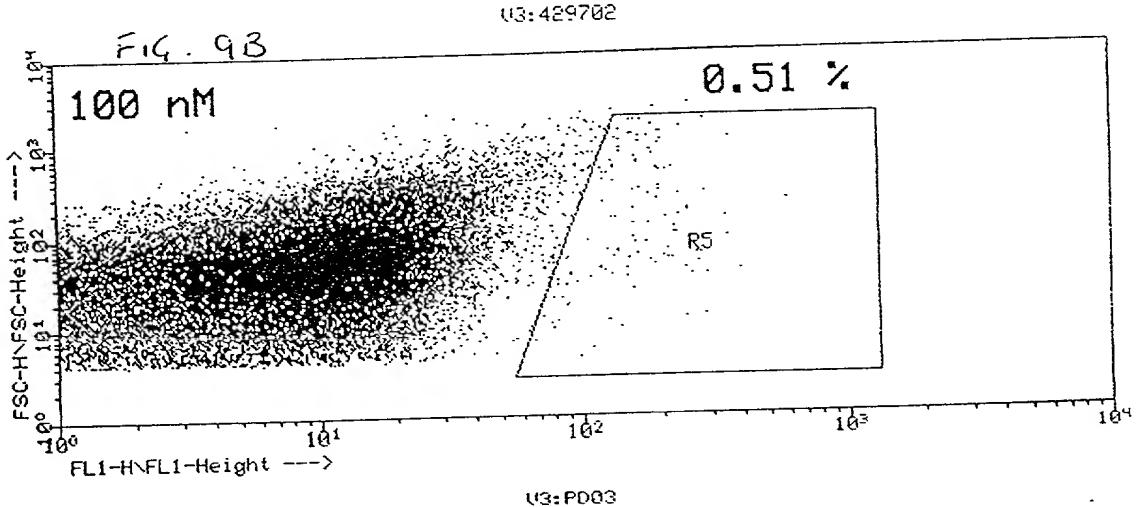
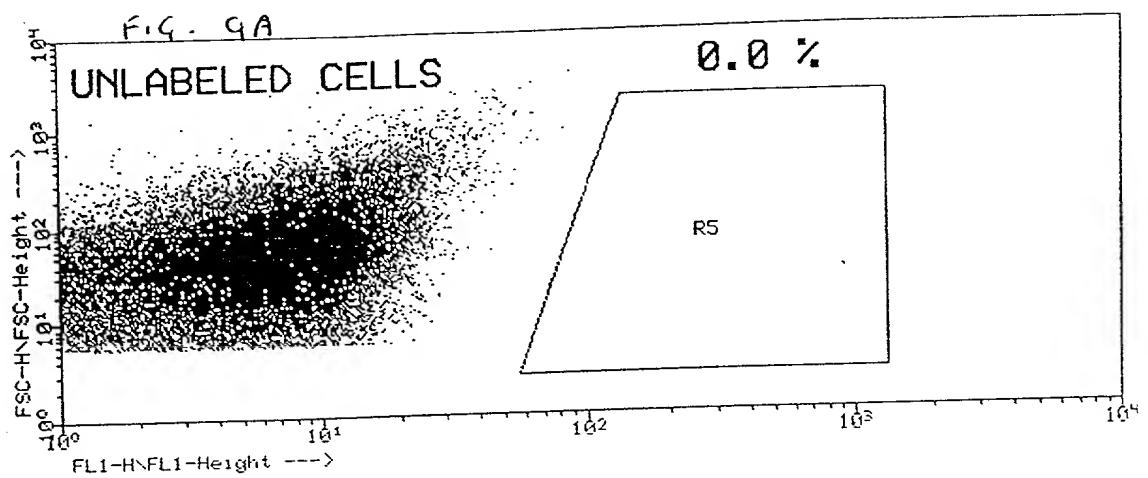


FIG. 9D

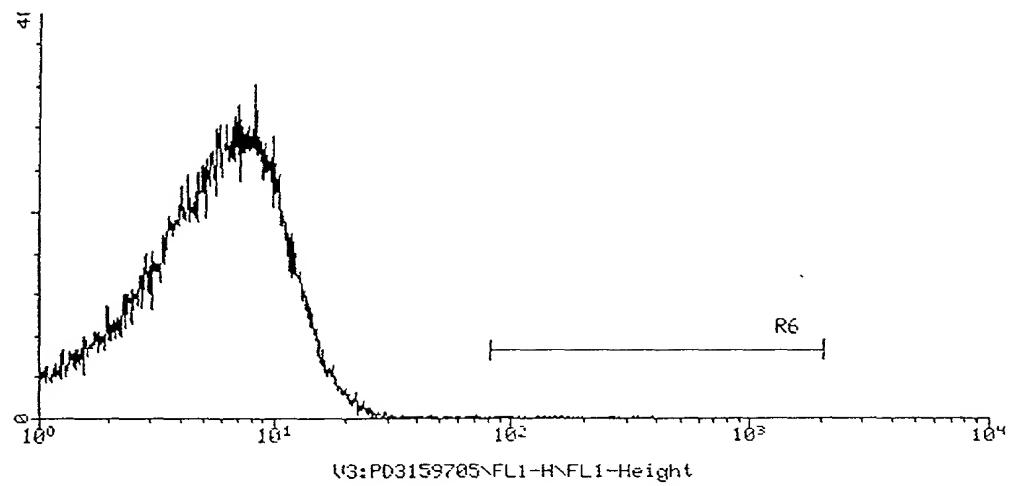


FIG. 9E

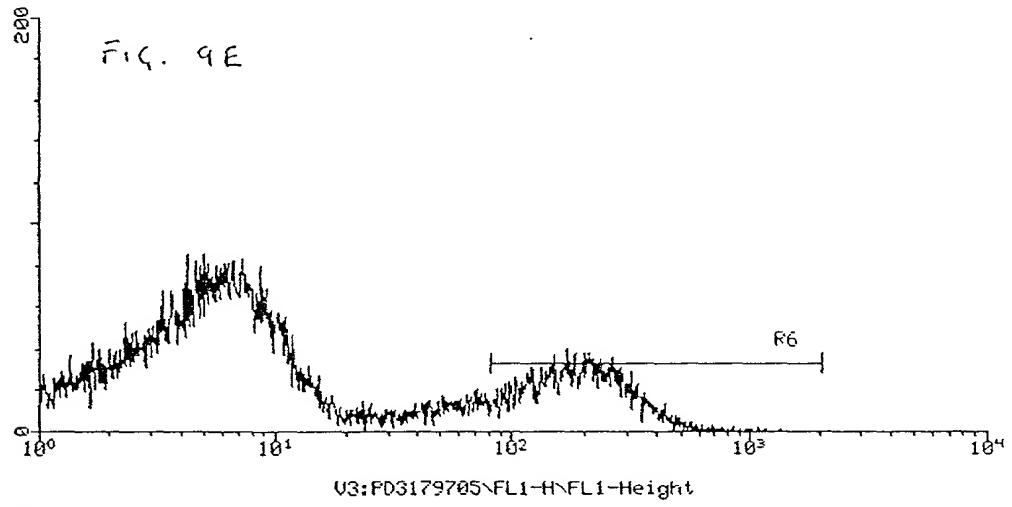
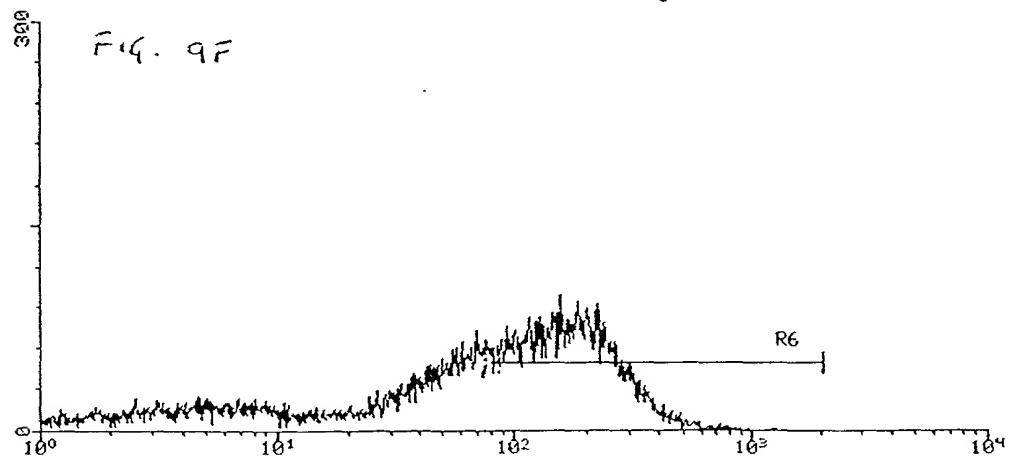
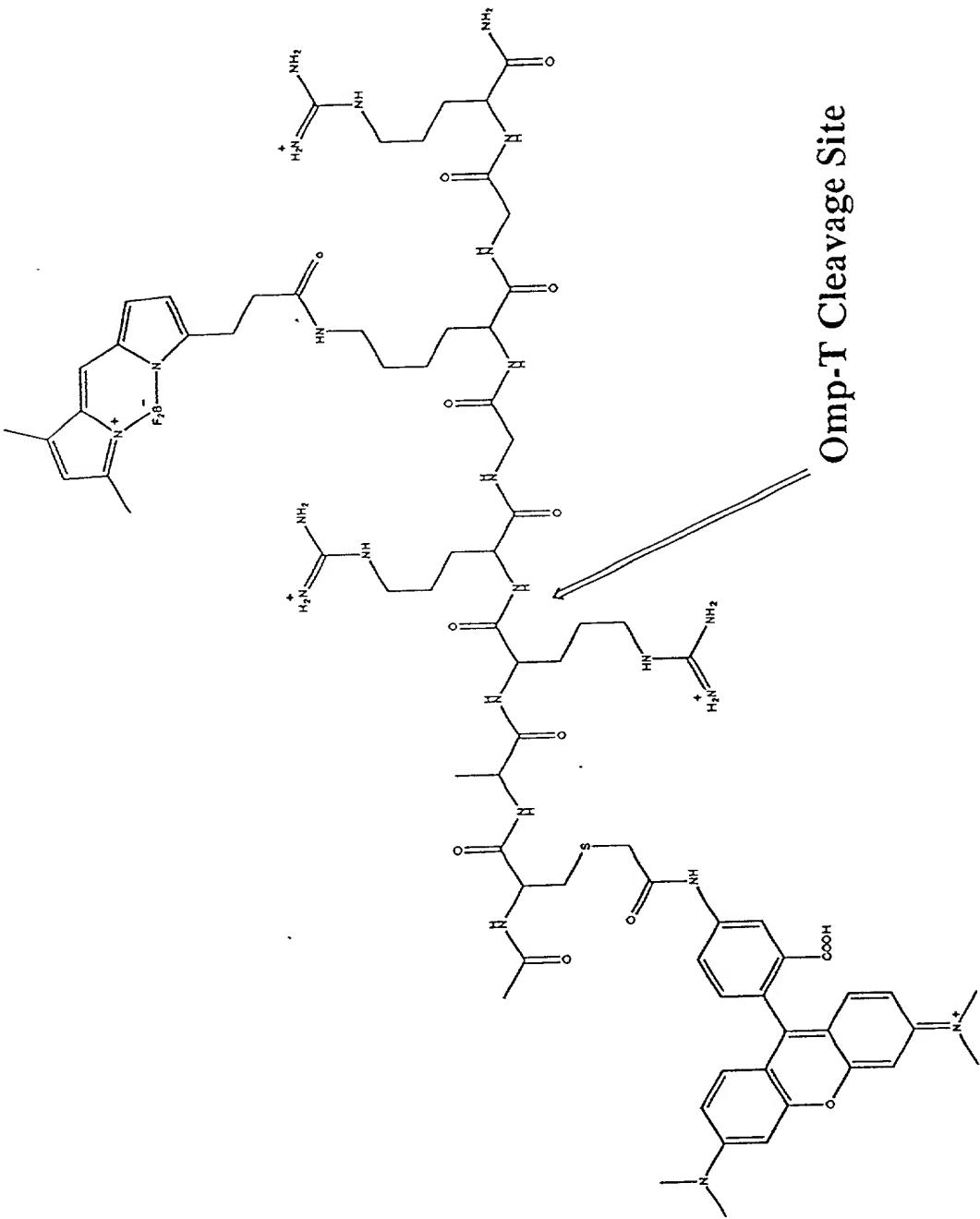


FIG. 9F



TETRAMETHYLRHODAMINE-BODIPY SUBSTRATE



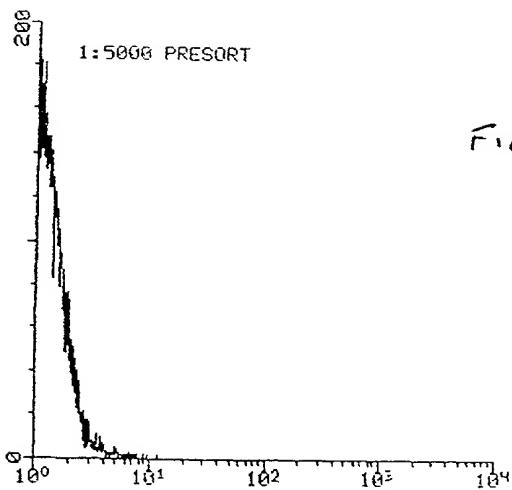


FIG. 12 A

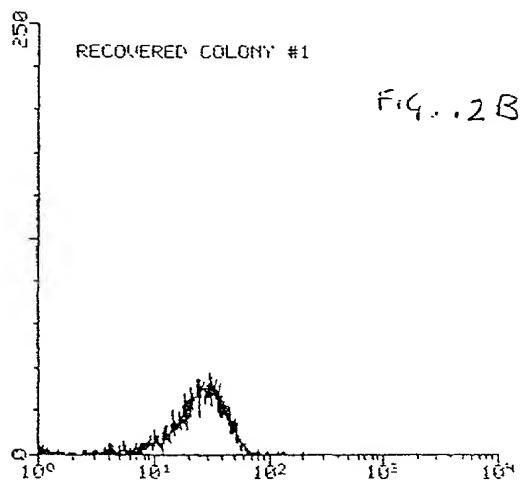


FIG. 12 B

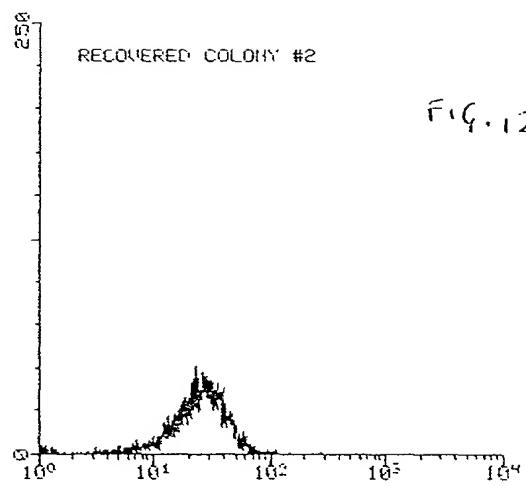


FIG. 12 C